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0. <u>Emors 1307</u>05 08/62385

Abstract

A process for recovering metal values from a metal containing material including the metal values comprising digesting the metal containing material in a sulfuric acid solution comprising: sulfuric acid, a reducing agent, and a carbon source, heating the digestion mixture and separating the resulting solution from the remaining solids. The sulfuric acid solution may additionally include hydrofluoric acid (HF) as a source of fluoride ion.